SERVICE MANUAL

KENWOOD®

KT-50/50L

AM-FM STEREO TUNER

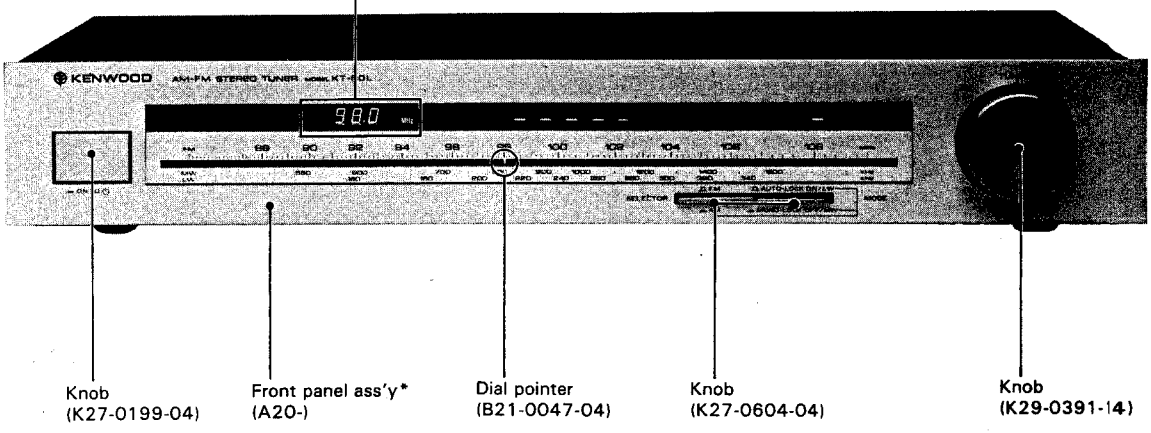


PHOTO is KT-50L.

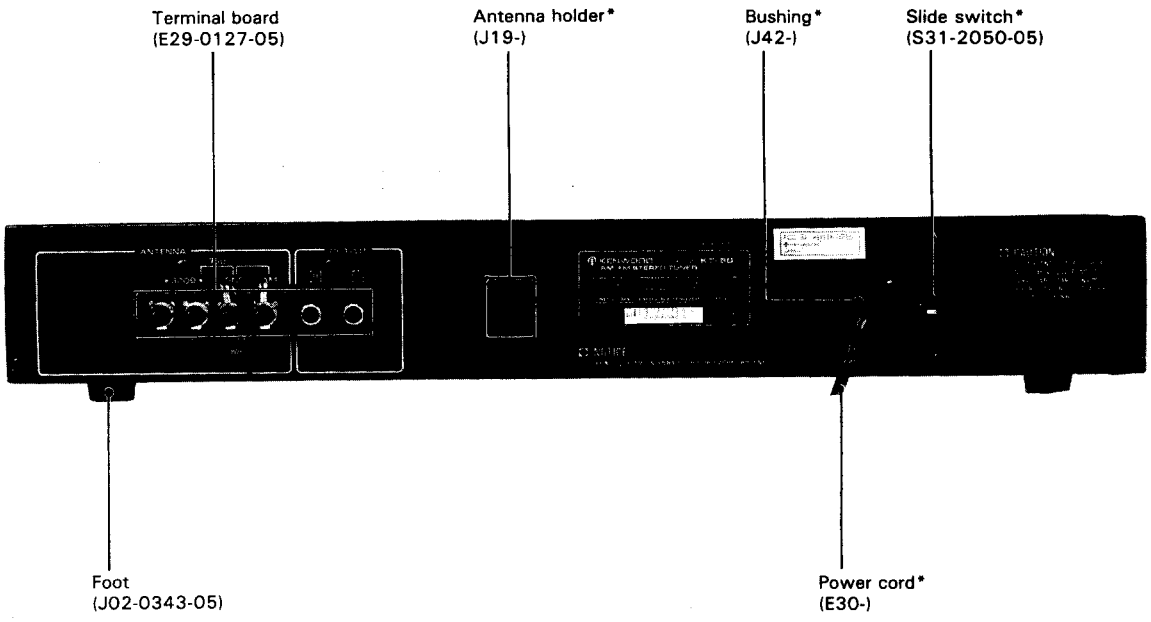


PHOTO is KT-50.

* Refer to Parts List on page 9.

EXPLODED VIEW

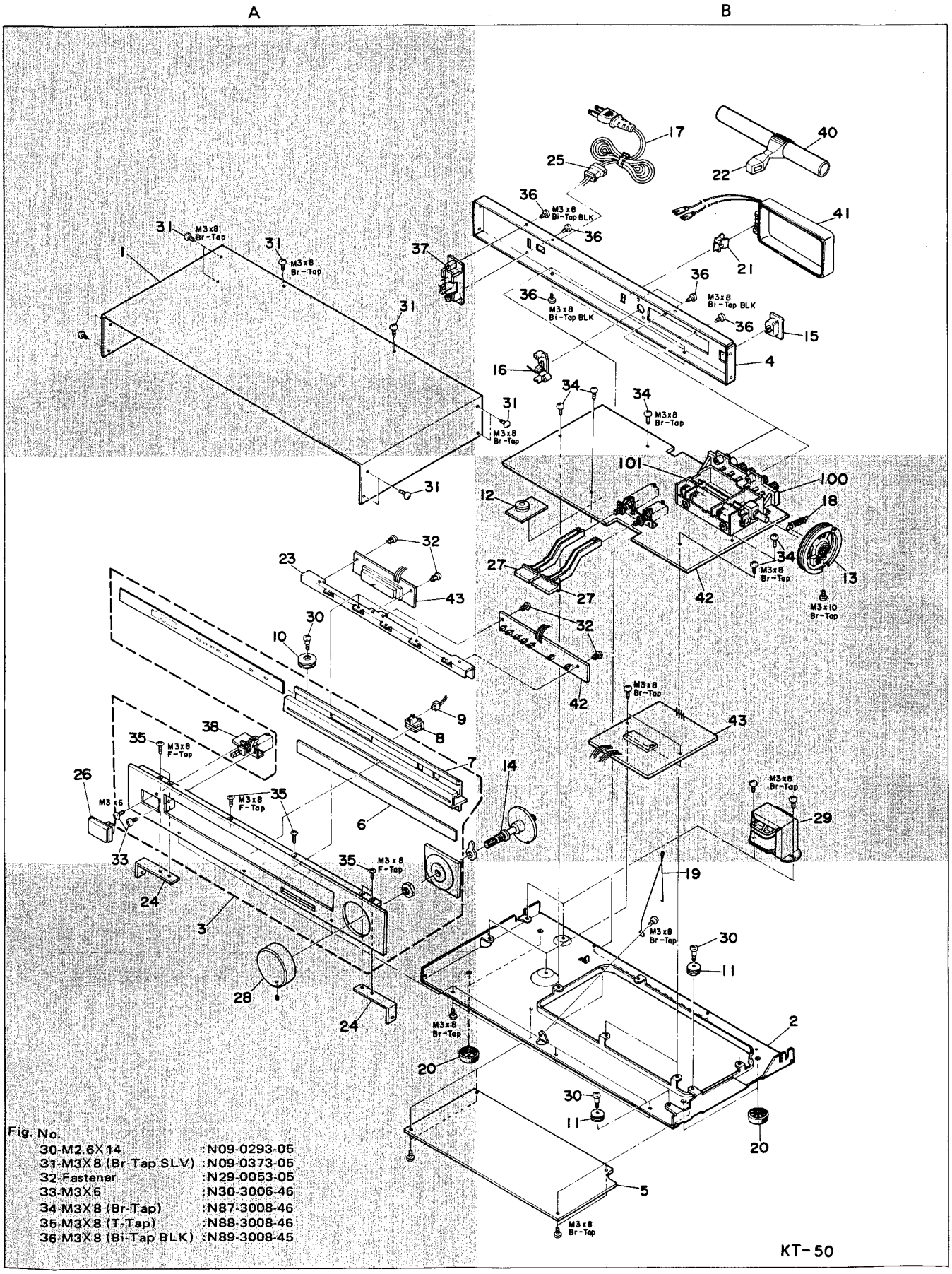


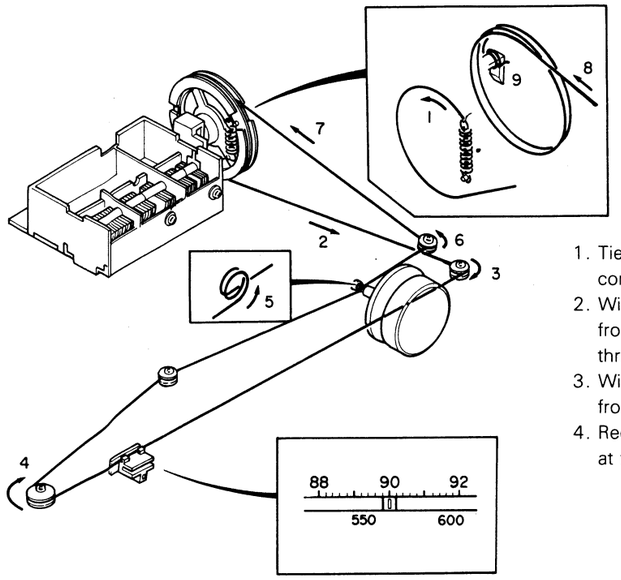
Fig. No.

30-M2.6X14	:N09-0293-05
31-M3X8 (Br-Tap SLV)	:N09-0373-05
32-Fastener	:N29-0053-05
33-M3X6	:N30-3006-46
34-M3X8 (Br-Tap)	:N87-3008-46
35-M3X8 (T-Tap)	:N88-3008-46
36-M3X8 (Bi-Tap BLK)	:N89-3008-45

See Parts List (page 9)

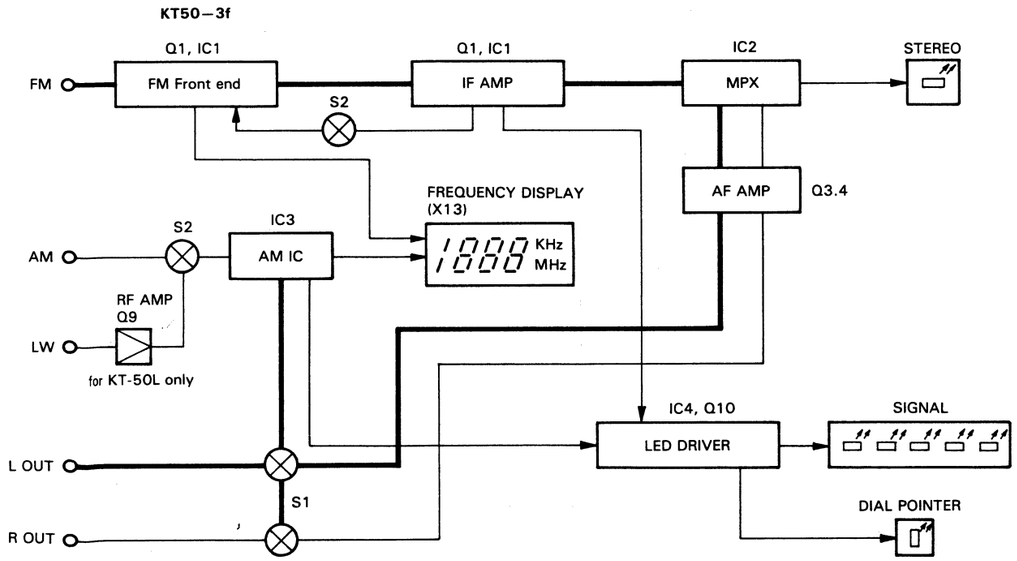
DIAL CORD STRINGING/BLOCK DIAGRAM

DIAL CORD STRINGING



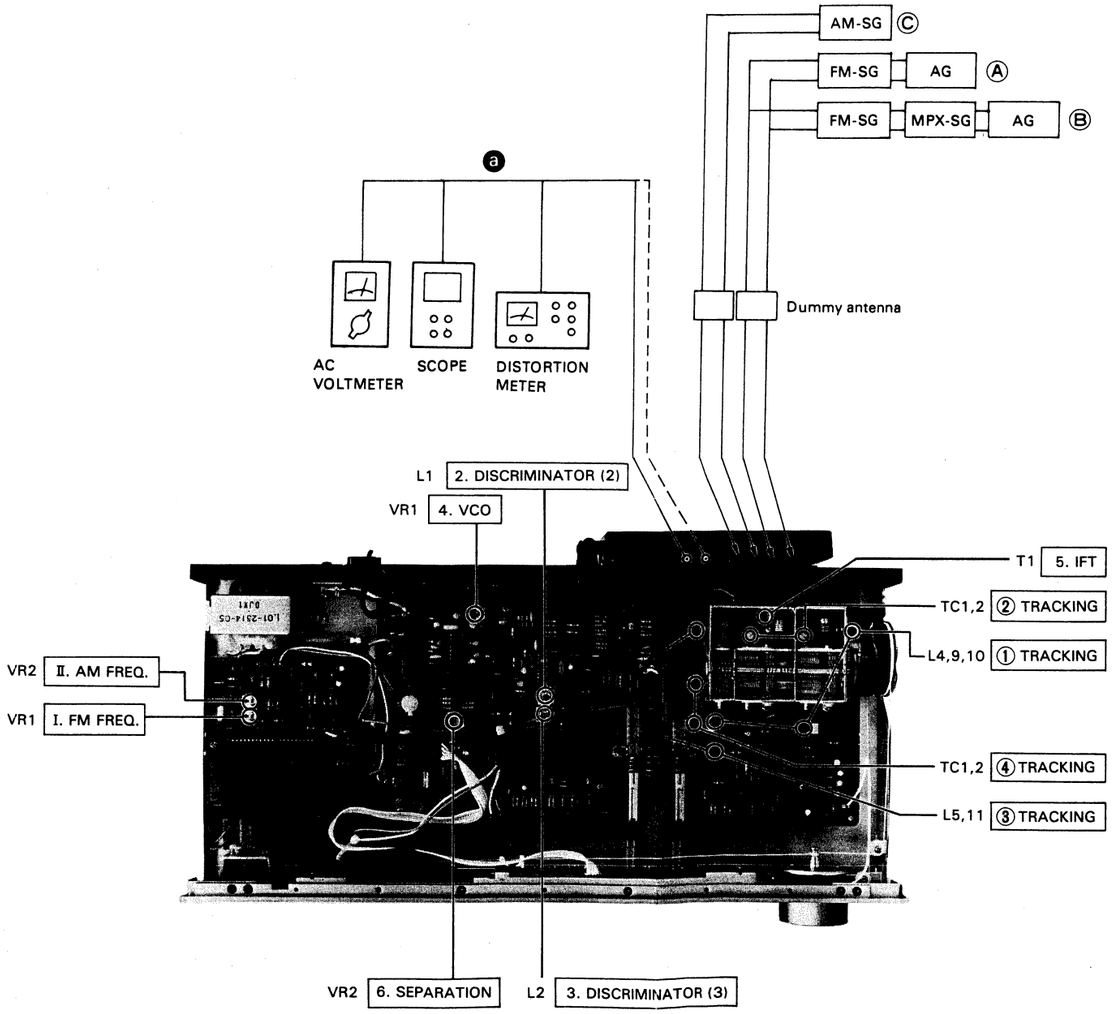
1. Tie the end of the dial cord to the spring. Dress the dial cord in the direction ① through ④.
2. Wind the dial cord 2 turns around the dial shaft starting from its lower side. Dress the dial cord in the direction ⑥ through ⑦.
3. Wind the dial cord 2.5 turn around the dial pulley starting from its upper side. Fix the dial cord to the boss. (⑧ ⑨)
4. Receive a 90 MHz signal and then mount the dial pointer at the 90 MHz position of the dial calibrations.

BLOCK DIAGRAM



ADJUSTMENT/REGLAGES/ABGLEICH

TEST INSTRUMENTS	APPAREILLAGE	PRÜFINSTRUMENTE	
Oscilloscope	Oscilloscope	Oszilloskop	SCOPE
AM signal generator	Générateur MA	MW-Signalgenerator	AM-SG
FM signal generator	Générateur MF	UKW-Signalgenerator	FM-SG
Audio generator	Générateur audio fréquences	NF-Signalgenerator	AG
AC voltmeter	Voltmètre CA	Wechselspannungsmesser	
FM multiplex generator	Générateur multiplex stéréo	UKW-Multiplexgenerator	FM-MPX
Frequency counter	Compteur de fréquence	Frequenzzähler	
DC voltmeter	Voltmètre CC	Gleichspannungsmesser	
Distortion meter	Distorsiomètre	Klirrfaktormesser	
Dummy antenna	Antenne fictive	Antennennachbildung	



ADJUSTMENT

NO.	ALIGNMENT	TEST EQUIPMENTS		TUNER SETTING	OUTPUT INDICATOR	ADJUSTMENT POINTS	REMARKS
		CONNECTION	SETTING				
FM SECTION							
1	DISCRIMI-NATOR (1)	Ⓐ	95 MHz 1 kHz, ±75 kHz (Dev)	FM-MONO 95 MHz	ⓐ	–	*1
2	DISCRIMI-NATOR (2)	- ditto -	95 MHz 1 kHz, ±75 kHz (Dev) 60 dB (ANT input)	FM-AUTO/MUTE 95 MHz	*2	L1	0V
3	DISCRIMI-NATOR (3)	- ditto -	- ditto -	- ditto -	ⓐ	L2	Minimum distortion
Repeat alignments "1 ~ 3" several times.							
4	VCO	Ⓐ	95 MHz 0 (Dev) 60 dB (ANT input)	FM-AUTO/MUTE 95 MHz	*3	VR1	19 kHz
5	IFT	Ⓑ	95 MHz 1 kHz, ±68.25 kHz(Dev) SELECTOR: L or R 60 dB (ANT input)	- ditto -	ⓐ	T1 (Front end)	Minimum distortion
6	SEPARATION	- ditto -	95 MHz 1 kHz (Mod) 68.25 kHz (Dev, under L + R position) 60 dB (ANT input) SELECTOR: L or R	- ditto -	- ditto -	VR2	Minimum crosstalk
AM-MW SECTION							
①	TRACKING (1)	Ⓒ	600 kHz 400 Hz, 30% Mod	AM 600 kHz	ⓐ	L4, 9, 10	Maximum deflection
②	TRACKING (2)	- ditto -	1,400 kHz 400 Hz, 30% Mod	AM 1,400 kHz	- ditto -	TC1, TC2 (Front end)	- ditto -
Repeat alignments "①, ②" several times.							
AM-LW SECTION							
③	LW TRACK-ING (1)	Ⓒ	160 kHz 400 Hz, 30% Mod	AM-LW 160 kHz	ⓐ	L5, 11	Maximum deflection
④	LW TRACK-ING (2)	- ditto -	340 kHz 400 Hz, 30% Mod	AM-LW 340 kHz	- ditto -	TC1, TC2	- ditto -
Repeat alignments "③, ④" several times.							
FREQUENCY COUNTER							
I	FM	Ⓐ	89.10 MHz 0 Dev 20 dB (ANT input)	FM-MONO 89.1 MHz	Fluorescent indicator	VR1 (X13-)	89.1 MHz
II	AM	Ⓒ	1440.0 kHz 400 Hz, 30% Mod 30 dB (ANT input)	AM 1440 kHz	- ditto -	VR2 (X13-)	1440 kHz

REGLAGES

Nº	ALIGNEMENT	APPAREILLAGE		REGLAGE DU TUNER	INDICATEUR DE SORTIE	POINTS DE REGLAGES	REMARQUES
		RACCORDE-MENT	REGLAGE				
SECTION MF							
1	DISCRIMI-NATEUR (1)	Ⓐ	95 MHz 1 kHz, ±75 kHz (Dév)	FM-MONO 95 MHz	ⓐ	–	*1
2	DISCRIMI-NATEUR (2)	- idem -	95 MHz 1 kHz, ±75 kHz (Dév) 60 dB (Entrée ANT)	FM-AUTO/MUTE 95 MHz	*2	L1	0V
3	DISCRIMI-NATEUR (3)	- idem -	- idem -	- idem -	ⓐ	L2	Distortion minimale
Repéter les points 1 ~ 3 plusieurs fois.							
4	OSCILATEUR 19 kHz	Ⓐ	95 MHz 0 (Dév) 60 dB	FM-AUTO/MUTE 95 MHz	*3	VR1	19 kHz
5	IFT	Ⓑ	95 MHz 1 kHz (Mod) ±68,25 kHz (Dév) L ou R (SELECTION) 60 dB	- idem -	ⓐ	T1 (Front end)	Distorsion minimale
6	SEPARATION	- idem -	95 MHz 1 kHz (Mod) sur la position (L + R) 68,25 kHz (Dév) 60 dB (Entrée ANT) L ou R	- idem -	- idem -	VR2	Diaphonie minimale
SECTION MA-OM							
①	ALIGNEMENT (1)	Ⓒ	600 kHz 400 Hz, 30% (Mod)	AM 600 kHz	ⓐ	L4, 9, 10	Déviation maximale
②	ALIGNEMENT (2)	- idem -	1.400 kHz 400 Hz, 30% (Mod)	AM 1.400 kHz	- idem -	TC1, TC2 (Front end)	- idem -
Repéter les points ①, ② plusieurs fois.							
SECTION MA-GO							
③	ALIGNEMENT (1)	Ⓒ	160 kHz 400 Hz, 30% (Mod)	AM-LW 160 kHz	ⓐ	L5, 11	Déviation maximale
④	ALIGNEMENT (2)	- idem -	340 kHz 400 Hz, 30% (Mod)	AM-LW 340 kHz	- idem -	TC1, TC2	- idem -
Repéter les points ③, ④ plusieurs fois.							
FREQUENCEMETRE							
I	MF	Ⓐ	89,10 MHz 0 Dév 20 dB (Entrée ANT)	FM-MONO 89,1 MHz	Indicateur à fréquence	VR1 (X13-)	89,1 MHz
II	MA	Ⓒ	1440,0 kHz 400 Hz, 30% Mod 30 dB (Entrée ANT)	AM 1440 kHz	- idem -	VR2 (X13-)	1440 kHz

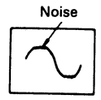
ABGLEICH

NR.	ABGLEICH	PRÜFEINRICHTUNG		TUNER EINSTELLUNG	AUSGANGS-ANZEIGE	EINSTELL-PUNKT	BEMERKUNGEN
		ANSCHLÜSSE	EINSTELLUNG				
UKW-EMPFANGSABTEILUNG							
1	DISKRIMI-NATOR (1)	Ⓐ	95 MHz 1 kHz, ±75 kHz (Hub)	FM-MONO 95 MHz	◉	–	*1
2	DISKRIMI-NATOR (2)	- dito -	95 MHz 1 kHz, ±75 kHz (Hub) 60 dB (Eingangs-signalpegel)	FM-AUTO/MUTE 95 MHz	*2	L1	0V
3	DISKRIMI-NATOR (3)	- dito -	- dito -	- dito -	◉	L2	Minimaler klirrfaktor
Abstimmungen "1 ~ 3" mehrere Male wiederholen.							
4	SPANNUNGS-GEREGELTER OSZILLATOR	Ⓐ	95 MHz 0 Hub 60 dB	FM-AUTO/MUTE 95 MHz	*3	VR1	19 kHz
5	IFT	Ⓑ	95 MHz 1 kHz, ±68,25 kHz(Hub) Wähler: L oder R 60 dB	- dito -	◉	T1 (Front end)	Minimaler Klirrfaktor
6	STEREO KANAL TRENNUNG	- dito -	95 MHz 1 kHz, ±68,25 kHz (Hub bei L + R Stellung), 60 dB (Eingangssignalpegel) Wähler: L order R	- dito -	- dito -	VR2	Minimales Übersprechen
MW-EMPFANGSABTEILUNG							
①	EMPFANGS-BEREICH (1)	Ⓒ	600 kHz 400 Hz, 30% Mod	AM 600 kHz	◉	L4, 9, 10	Minimaler Ausschlag
②	EMPFANGS-BEREICH (2)	- dito -	1.400 kHz 400 Hz, 30% Mod	AM 1.400 kHz	- dito -	TC1, TC2 (Front end)	- dito -
Abstimmungen "① und ②" mehrere Male wiederholen.							
LW-EMPFANGSABTEILUNG							
③	LW-EMPFANGS-BEREICH (1)	Ⓒ	160 kHz 400 Hz, 30% Mod	AM-LW 160 kHz	◉	L5, 11	Maximaler Ausschlag
④	LW-EMPFANGS-BEREICH (2)	- dito -	340 kHz 400 Hz, 30% Mod	AM-LW 340 kHz	- dito -	TC1, TC2	- dito -
Abstimmungen ③ und ④ "mehrere Male wiederholen.							
FREQUENZZÄHLER							
I	UKW	Ⓐ	89,10 MHz 0 Hub 20 dB (Eingangs-signalspegel)	FM-MONO 89,1 MHz	Frequenz-indikator	VR1 (X13-)	89,1 MHz
II	MW	Ⓒ	1440 kHz 400 Hz, 30% Mod 30 dB (Eingangs-signalpegel)	AM 1440,0 kHz	- dito -	VR2 (X13-)	1440 kHz

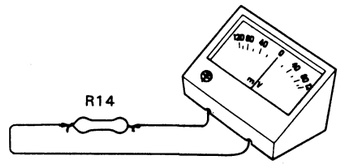
KT-50/50L

ADJUSTMENT / REGLAGES / ABGLEICH

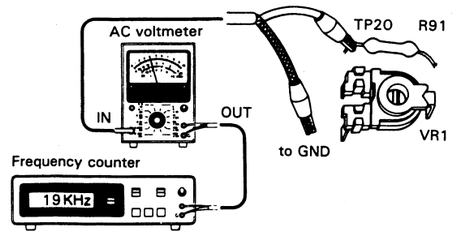
***1.**
Adjust the tuning knob so that the same amount of noise is observed at the top and bottom of the output waveform with a weak signal.



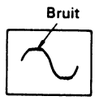
***2.**
Connect a DC voltmeter (or VOM) across R14 and adjust L1 for a 0V reading.



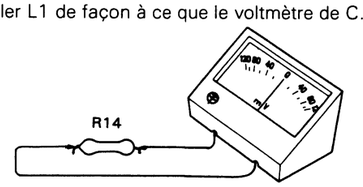
***3.**
Connect a frequency counter to the TP20 of R91 via an AC voltmeter when adjusting to 19 kHz.



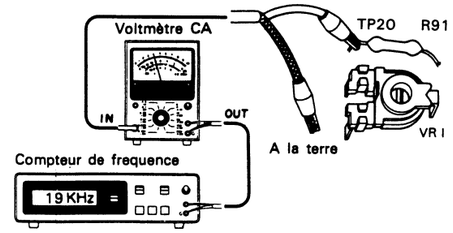
***1.**
Régler le bouton d'accord en sorte que la même quantité du bruit puisse être observée au sommet et au bas de la forme d'onde de sortie sous des conditions d'alimentation de signal faible.



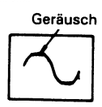
***2.**
Connecter un voltmètre CC (ou VOM) aux deux extrémites de R14 et régler L1 de façon à ce que le voltmètre de C.C. indique 0V.



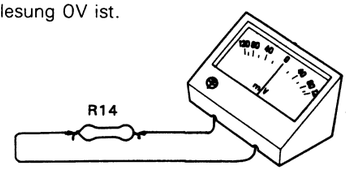
***3.**
Connecter un compteur de fréquence au TP20 de R91 par le voltmètre CA, et régler sur 19 kHz.



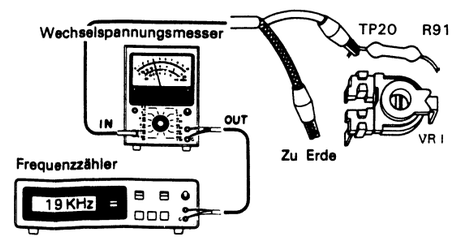
***1.**
Den Abstimmknopf so einstellen, daß an der oberen und unteren Grenze der Ausgangswellenform bei schwachem Signal dasselbe Geräusch auftritt.



***2.**
Einen Gleichspannungsmesser (oder VOM) über R14 anschließen und L1 so einstellen, daß die Gleichspannungsmesser-Ablesung 0V ist.



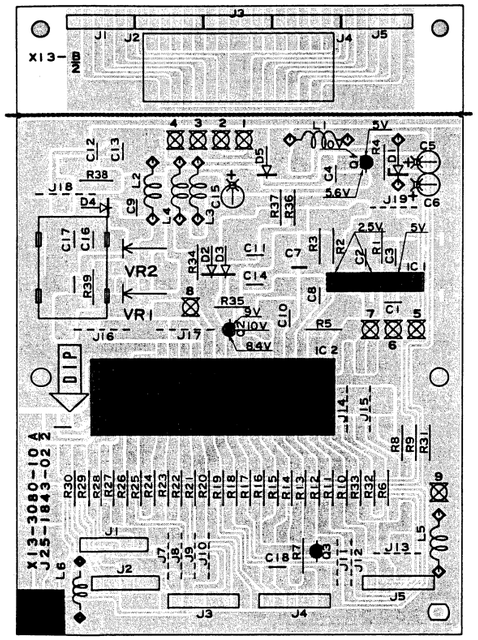
***3.**
Den Frequenzzähler an TP20 von R91 durch den Wechselspannungsmesser anschließen, und auf 19 kHz einstellen.



PC BOARD

SUB (X13-30**-**)

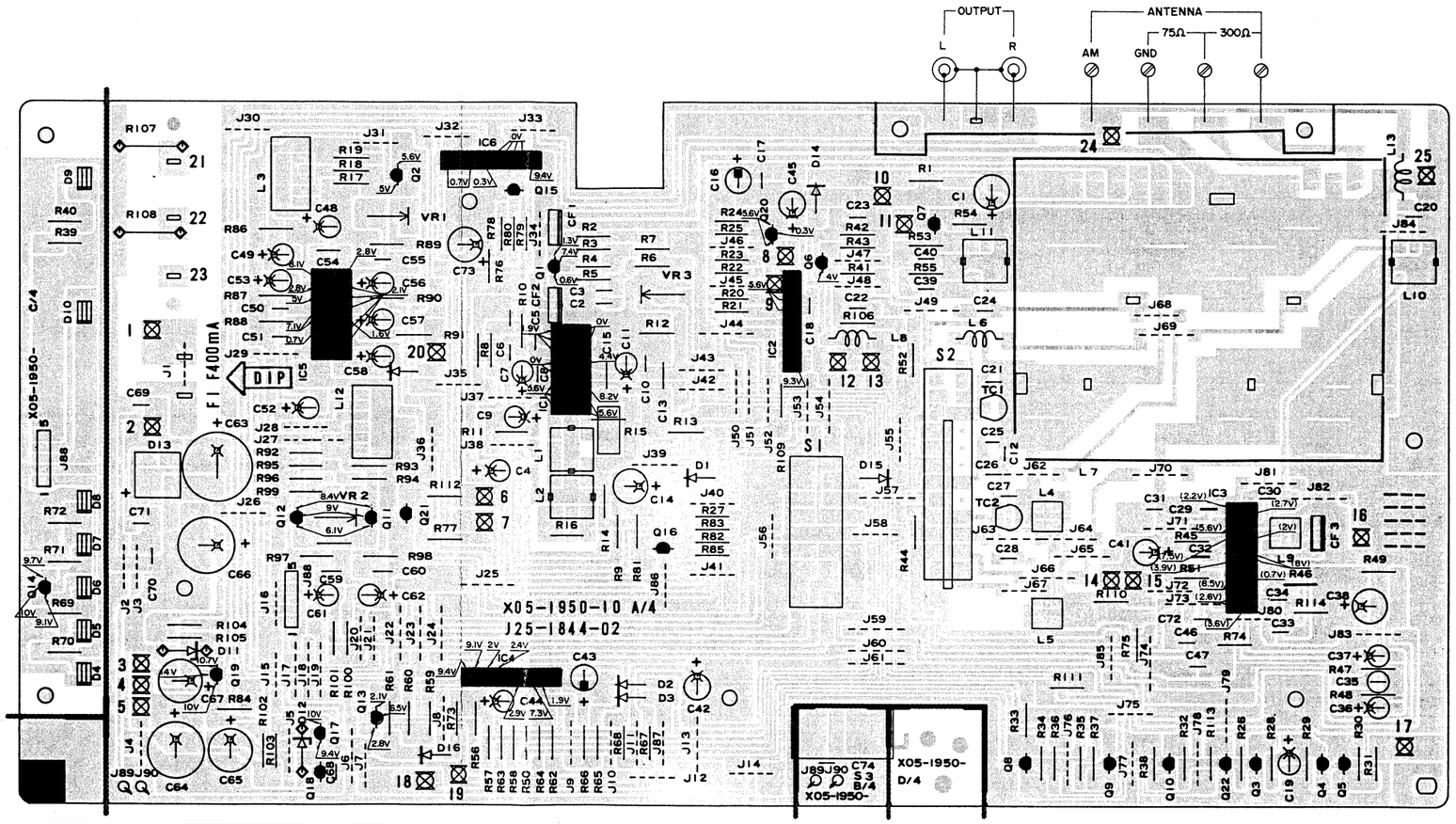
Component side view



SUB (X13-30**-**)

Component side view

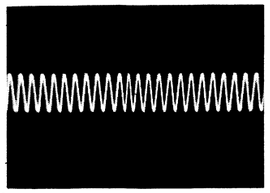
* Refer to the schematic diagram for the values of resistors and capacitors.



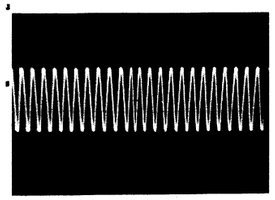
KENWOOD®

AM-FM STEREO TUNER

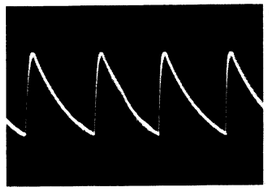
WAVEFORMS AT CHECK POINTS



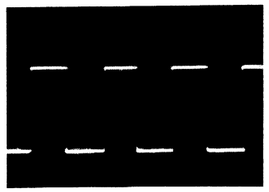
① 0.2μs/DIV, 0.2V/DIV (FM-IF)



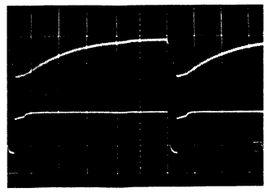
② 0.2μs/DIV, 0.2V/DIV (FM-IF)



③ 5μs/DIV, 1V/DIV (VCO)

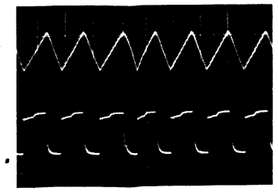


④ 20μs/DIV, 1V/DIV (38kHz)



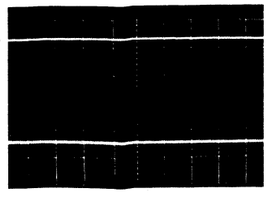
⑤ 1S/DIV, 0.2V/DIV (FM-No signal)

⑥ 1S/DIV, 5V/DIV



⑤ 1S/DIV, 0.2V/DIV (FM-reception)

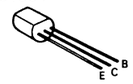
⑥ 1S/DIV, 5V/DIV



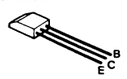
⑤ 7.3V DC (AM or FM tuned)

⑥ 1.9V DC

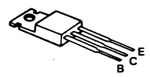
2SC1923 2SA733(A)
2SC945(A) 2SA999
2SC2320 2SD655
2SC1684
2SC1384



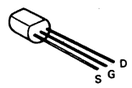
2SC535



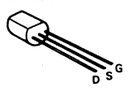
2SD330



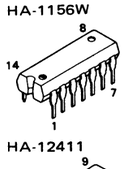
2SK163



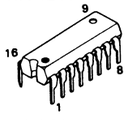
2SK61



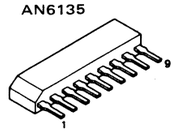
HA-1156W



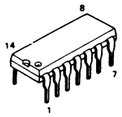
HA-12411



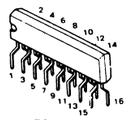
AN6551
AN6135



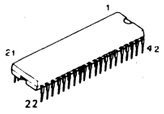
μPC587C2
KB-4409B
AN115

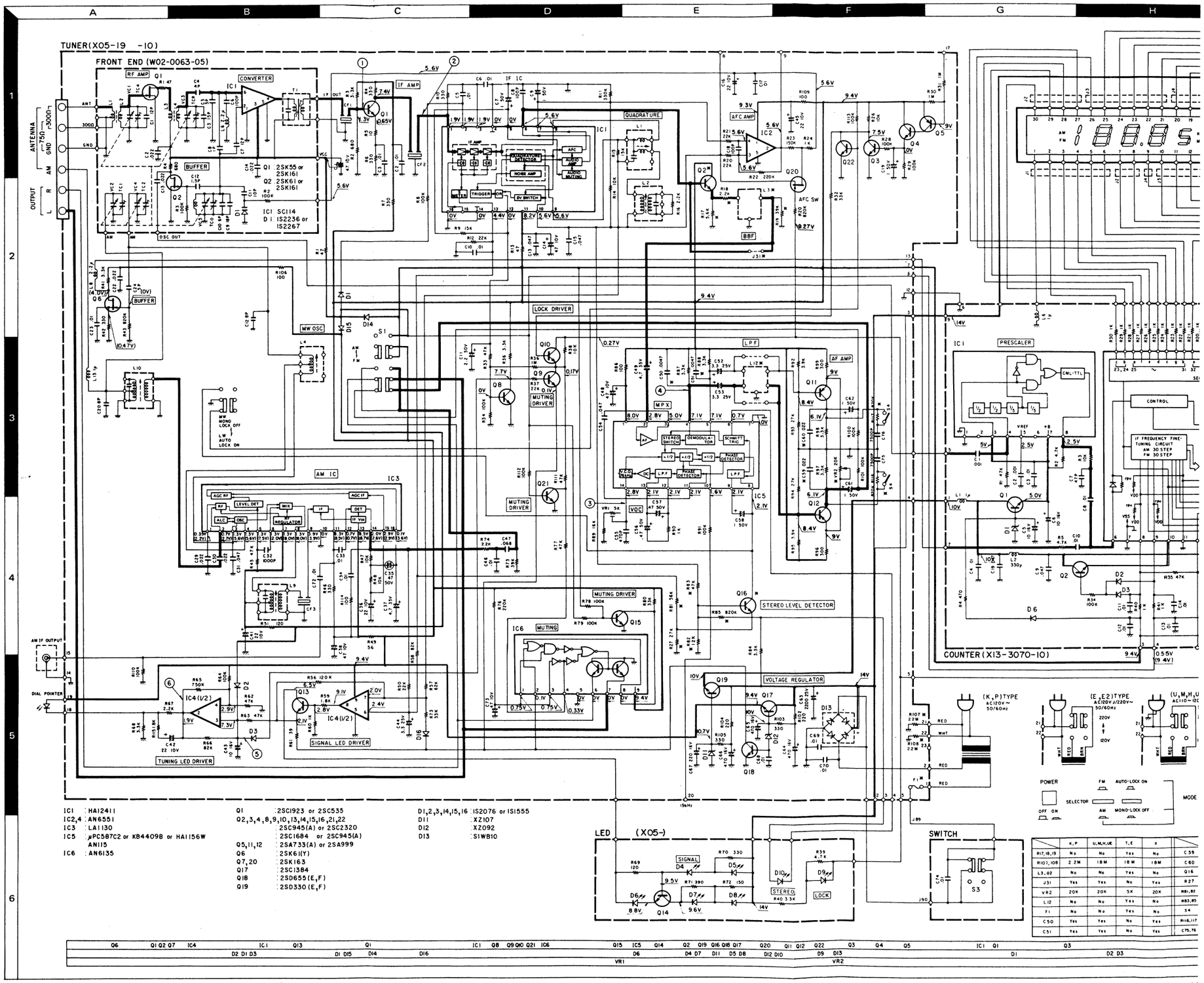


LA-1130



LC-7257



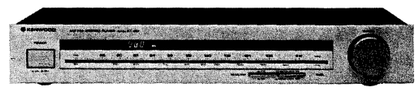


	K,P	U,M,H,UE	T,E	X	
R17,18,19	No	No	Yes	No	C59
R107,108	2.2M	1.8M	1.8M	1.8M	C60
L3,02	No	No	Yes	No	D16
J31	Yes	Yes	No	Yes	R27
VR2	20K	20K	5K	20K	R81,82
L12	No	No	Yes	No	R83,85
F1	No	No	Yes	No	S4
C50	Yes	Yes	No	Yes	R116,117
C51	Yes	Yes	No	Yes	C75,76

| | | |

AM-FM STEREO TUNER

KT-50



SPECIFICATIONS

FM TUNER SECTION

Usable Sensitivity	10.8 dBf (1.9 μV)
50 dB Quieting Sensitivity	
Mono	17.2 dBf (4.0 μV)
Stereo	37.2 dBf (40 μV)
Signal-to-Noise Ratio at 65 dBf	
Mono	75 dB
Stereo	70 dB
Total Harmonic Distortion at 1 kHz	
Mono	0.1%
Stereo	0.2%
Frequency Response	30 Hz to 15 kHz +0.2 dB, −2.0 dB
Capture Ratio	1.5 dB
Image Rejection Ratio	50 dB
Spurious Response Ratio	80 dB
IF Response Ratio	90 dB
Alternate Channel Selectivity	50 dB
AM Suppression Ratio	65 dB
Stereo Separation Ratio	45 dB at 1 kHz 35 dB at 50 Hz to 10 kHz 30 dB at 15 kHz
Antenna Impedance	300 ohms balanced and 75 ohms unbalanced
FM Frequency Range	87.5 MHz to 108 MHz
Output Level at 1 kHz, 100% Mod	0.7V, 3.3 kohms

AM TUNER SECTION

Usable Sensitivity	13 μV
Signal-to-Noise Ratio	48 dB
Total Harmonic Distortion	0.5%
Image Rejection	45 dB
Output Level	0.14V, 3.3 kohms

GENERAL

Power Requirements	60 Hz 120V (U.S.A. and Canada) or 50/60 Hz 110-120/220-240V, Switchable
Power Consumption	0.1A (UL and CSA) 10W
Dimensions	W: 440 mm (17-5/16") H: 74 mm (2-29/32") D: 250 mm (9-51/64")
Weight (Net)	3.0 kg (6.6 lb)

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Kenwood poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

Kenwood strebt ständige Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

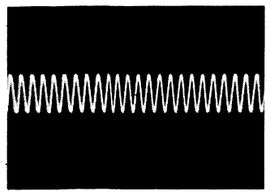
: HAI2411
4 : AN6551
: LA1130
: μPC587C2 or KB4409B or HAI156W
: AN115
: AN6135

Q1 : 2SC1923 or 2SC535
Q2,3,4,8,9,10,13,14,15,16,21,22 : 2SC945(A) or 2SC2320 : 2SC1684 or 2SC945(A)
Q5,11,12 : 2SA733(A) or 2SA999
Q6 : 2SK61(Y)
Q7,20 : 2SK163
Q17 : 2SC1384
Q18 : 2SD655(E,F)
Q19 : 2SD330(E,F)

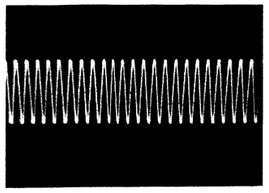
D1,2,3,4,5,16 : IS2076 or IS1555
D11 : XZ107
D12 : XZ092
D13 : S1WB10

DC voltage are measured by VOM of 20 kΩ/V input impedance.

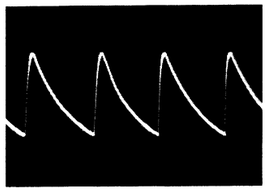
WAVEFORMS AT CHECK POINTS



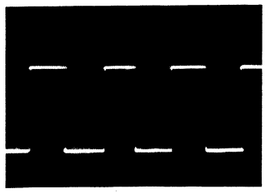
① 0.2μs/DIV, 0.2V/DIV (FM-IF)



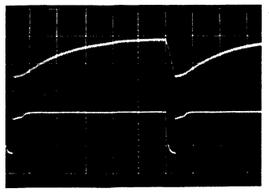
② 0.2μs/DIV, 0.2V/DIV (FM-IF)



③ 5μs/DIV, 1V/DIV (VCO)

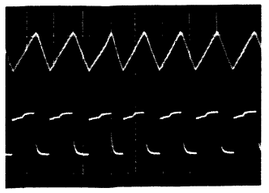


④ 20μs/DIV, 1V/DIV (38kHz)



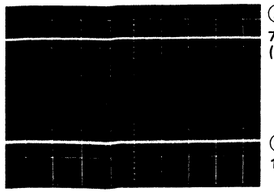
⑤ 1S/DIV, 0.2V/DIV (FM-No signal)

⑥ 1S/DIV, 5V/DIV



⑤ 1S/DIV, 0.2V/DIV (FM-reception)

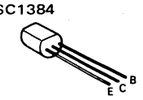
⑥ 1S/DIV, 5V/DIV



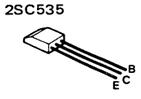
⑤ 7.3V DC (AM or FM tuned)

⑥ 1.9V DC

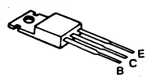
2SC1923 2SA733(A)
2SC945(A) 2SA999
2SC2320 2SD655
2SC1684
2SC1384



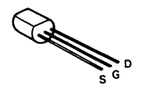
2SC535



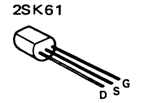
2SD330



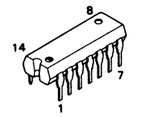
2SK163



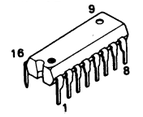
2SK61



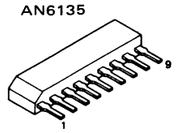
HA-1156W



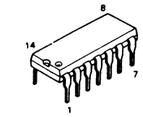
HA-12411



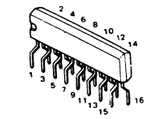
AN6551
AN6135



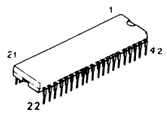
μPC587C2
KB-4409B
AN115

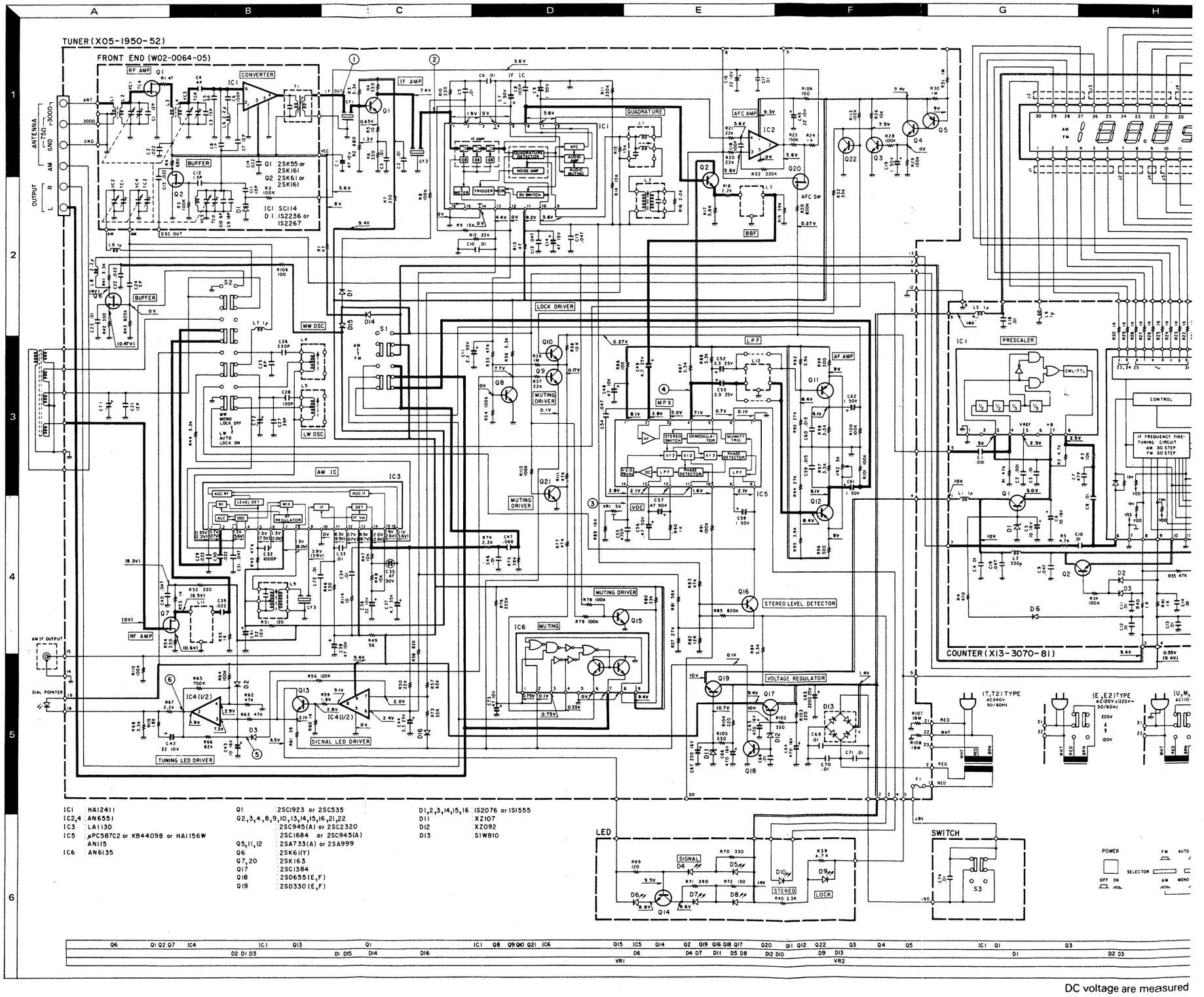


LA-1130



LC-7257





DC voltage are measured

AM-FM STEREO TUNER

KT-50L

SPECIFICATIONS

FM TUNER SECTION (KT-50L)

Sensitivity at 75 ohms	
Mono: S/N 26 dB, 40 kHz Dev.	0.9 μV
Stereo: S/N 46 dB, 46 kHz Dev.	25 μV
50 dB Quieting Sensitivity Mono (IHF)	2.0 μV
Limiting Level	
– 3 dB Point, 40 kHz Dev.	0.5 μV
Frequency Response	30 Hz ~ 15 kHz +0.2 dB, –2 dB
Total Harmonic Distortion	
Mono: 1 kHz, 40 kHz Dev.	0.15%
Stereo: 1 kHz, 46 kHz Dev.	0.3%
S/N Weighted (IEC-A)	
Mono: 40 kHz Dev., 1 mV Input	70 dB
Stereo: 46 kHz Dev., 1 mV Input	65 dB
S/N Ratio (IHF)	
Mono: 75 kHz Dev., 1 mV Input	75 dB
Stereo: 75 kHz Dev., 1 mV Input	70 dB
FM Stereo Separation: 1 mV Input (DIN)	
250 Hz	40 dB
1 kHz	40 dB
6.3 kHz	35 dB
12.5 kHz	30 dB
Image Rejection Ratio	50 dB
Selectivity	
300 kHz, 20 dB Input	70 dB
IF Rejection Ratio	90 dB
AM Suppression Ratio	65 dB
Spurious Response Ratio	80 dB
Capture Ratio	1.5 dB
Pilot Tone 19 kHz	35 dB

MW TUNER SECTION

Sensitivity S/N 20 dB	13 μV
S/N Ratio: 1 mV Input	48 dB
Image Rejection Ratio	45 dB

LW TUNER SECTION

Sensitivity S/N 20 dB	14 μV
S/N Ratio: 1 mV Input	48 dB
Image Rejection Ratio	55 dB

GENERAL

Power Consumption	10 W
Dimensions	W : 440 mm H : 74 mm D : 250 mm
Weight (net)	3.0 kg

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TUNER (X05-1950-52)

FRONT END (W02-0064-05)

IC1 : HA12411
IC2,4 : AN6551
IC3 : LA1130
IC5 : μPC587C2 or KB4409B or HA1156W
AN115
IC6 : AN6135

Q1 : 2SC1923 or 2SC535
Q2,3,4,8,9,10,13,14,15,16,21,22 : 2SC945(A) or 2SC2320
2SC1684 or 2SC945(A)
Q5,11,12 : 2SA733(A) or 2SA999
Q6 : 2SK6(IY)
Q7,20 : 2SK163
Q17 : 2SC1384
Q18 : 2SD655(E,F)
Q19 : 2SD330(E,F)

D1,2,3,14,15,16 : IS2076 or IS1555
D11 : XZ107
D12 : XZ092
D13 : S1WB10

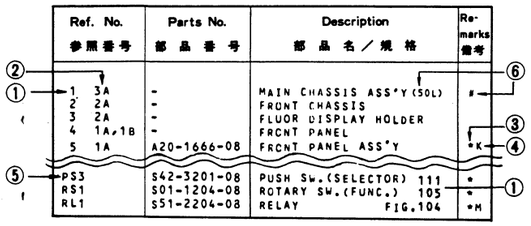
KT-50L

DC voltage are measured by VOM of 20 kΩ/V input impedance.

KT-50/50L

PARTS LIST

INSTRUCTION FOR PARTS LIST


Ref. No. 参照番号
Parts No. 部品番号
Description 部品名／規格
Re-marks 備考
2 1 3A - MAIN CHASSIS ASS'Y (50L) #
1 2 2A - FRONT CHASSIS
3 2A - FLUOR DISPLAY HOLDER
4 1A,1B - FRONT PANEL
5 1A A20-1666-08 FRONT PANEL ASS'Y *K 4
5 PS3 S42-3201-08 PUSH SW.(SELECTOR) 111 *
RS1 S01-1204-08 ROTARY SW.(FUNC.) 105 *
RL1 S51-2204-08 RELAY FIG.104 *M
6
3
1

① Exploded view drawing No.
② Position in exploded view.
③ Symbol of new parts
④ Area to which parts are shipped. Example A20-1666-08 is the part No. of FRONT PANEL ASS'Y for the "K" type products (for U.S.A.). When this column is blank, it means that the same type of parts (same parts No.) are used for the products shipped to all areas.
⑤ Reference No. in schematic diagram.
⑥ (50L) and # are KT-50L

Abbreviations

* Abbreviations of capacitors (Parts No. with initial letter "C").

ELECTRO	Electrolytic capacitor
LL-ELEC	Low leak electrolytic capacitor
NP-ELEC	Non-pole electrolytic capacitor
MICA	Mica capacitor
POLYSTY	Polystyrene capacitor
MYLAR	Mylar capacitor
CERAMIC	Ceramic capacitor
TANTAL	Tantalum capacitor
MF	Metallized film capacitor
MP	Metallized paper capacitor
OIL	Oil capacitor

The unit "UF" is used in lieu of "μF"

* Abbreviations of resistors (Parts No. with initial letters "R").

RC	Carbon composition resistor
RD	Carbon film resistor
FL-PROOF RD	Flame-proof carbon film resistor
RW	Wire wound power resistor
FL-PROOF RS	Flame-proof metal oxide film resistor
RN	Metal film resistor
FUSE-RESIST	Resistor with fuse function
2B	Rated wattage 1/8W
2E	Rated wattage 1/4W
2H	Rated wattage 1/2W
3A	Rated wattage 1W
3D	Rated wattage 2W
3F	Rated wattage 3W
3G	Rated wattage 4W
3H	Rated wattage 5W

All resistor values are indicated with the unit (Ω) omitted.

* Abbreviations common to capacitors and resistors.

C	±0.25pF (Used for capacitors only)
D	±0.5pF (Used for capacitors only)
F	±1%
G	±2%
J	±5%
K	±10%
M	±20%
Z	+80%, −20% (Used for capacitors only)
P	+100%, −0% (Used for capacitors only)

Resistors RD (carbon composition resistors) are not listed in the parts list. For values, refer to the schematic diagram.

* Codes in X05-19**-** X13-30**-**

K: X05-1950-10 X05-1960-10 K: X13-3070-10 X13-3080-10
T: X05-1950-51 X05-1960-51
[T]: X05-1950-52 X05-1960-52
X: X05-1950-71 X05-1960-71
U: X05-1950-81 X05-1960-81 U: X13-3070-81 X13-3080-81

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Re-marks 備考
KT-50 (L) UNIT			
-	351-0003-14	DIAL STRING	
1 1A	A01-0399-04	METALLIC CABINET	
2 3B	A10	MAIN CHASSIS	
3 2A	A20-1795-03	FRONT PANEL ASSY	*K
3 2A	A20-1795-03	FRONT PANEL ASSY	UM
3 2A	A20-1795-03	FRONT PANEL ASSY	HX
3 2A	A20-1795-03	FRONT PANEL ASSY	UE
3 2A	A20-1796-03	FRONT PANEL ASSY	*T
3 2A	A20-1797-03	FRONT PANEL ASSY	*E
3 2A	A20-1798-03	FRONT PANEL ASSY (50L)	*T
3 2A	A20-1799-03	FRONT PANEL ASSY (50L)	*E
4 1B	-	REAR PANEL	
5 3B	-	BOTTOM PLATE	
6 2A	B10-0293-04	FRONT GLASS	
7 2A	B20	DIAL CALIBRATION	
8 2A	B21-0047-04	DIAL POINTER	
9 2A	B30-0283-05	LAMP	
-	B41-0229-04	CAUTION LABEL	
-	B42-0473-24	LABEL	
-	B46-0055-30	WARRANTY CARD	P
-	B46-0060-00	WARRANTY CARD	T
-	B46-0061-30	WARRANTY CARD	K
-	B46-0062-30	WARRANTY CARD	H
-	B46-0063-13	WARRANTY CARD	UE
-	B46-0064-20	WARRANTY CARD	X
-	B50-3309-00	INSTRUCTION MANUAL	* K
-	B50-3310-00	INSTRUCTION MANUAL	* P
-	B50-3312-00	INSTRUCTION MANUAL	* #T
-	B50-3313-00	INSTRUCTION MANUAL	* E
-	B50-3314-00	INSTRUCTION MANUAL	* #E
-	B50-3318-00	INSTRUCTION MANUAL	* T
-	B50-3338-00	INSTRUCTION MANUAL	* M
-	B59-0018-00	INSTRUCTION PRINT	
C1	C55-1710-38	CERAMIC 0.01UF Z	
10 2A	-	PULLEY	
11 3B	D15-0172-04	PULLEY	
12 2B	D15-0175-05	PULLEY	
13 2B	D15-0177-04	PULLEY	
14 2B	D20-0159-04	DIAL SHAFT	
-	E30-0505-05	AUDIO CORD	
15 1B	E04-0004-05	RECEPTACLE	E
16 1B	E13-0116-05	PHONO JACK	KP
16 1B	E13-0116-05	PHONO JACK	UH
16 1B	E13-0116-05	PHONO JACK	UE
17 1B	E30-0181-05	POWER CORD	KP
17 1B	E30-0459-05	POWER CORD	E
17 1B	E30-0545-05	POWER CORD	UM
17 1B	E30-0545-05	POWER CORD	H
17 1B	E30-0545-05	POWER CORD	UE
17 1B	E30-0587-05	POWER CORD	T
17 1B	E30-0649-05	POWER CORD	X
18 2B	G01-0044-14	COILED SPRING	
19 3B	G09-0023-04	SPRING	
-	H01-3282-04	CARTON BOX	KP
-	H01-3282-04	CARTON BOX	UM
-	H01-3282-04	CARTON BOX	UE
-	H01-3282-04	CARTON BOX	HX
-	H01-3282-04	CARTON BOX	E

PARTS LIST

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Re-marks 備考
-	H01-3289-04	CARTON BOX (50L)	#E
-	H10-1574-03	POLYSTYRENE FIXTURE	
-	H25-0078-04	BAG	
-	H25-0179-04	BAG	
20 3A,3B	J02-0343-05	FOOT	
21 1B	J19-0507-05	ANT HOLDER	
22 1B	J19-0564-05	ANT HOLDER (50L)	#
23 2A	-	MOUNTING HARDWARE	
24 3A	-	MOUNTING HARDWARE	
25 1B	J42-0083-05	BUSHING	
25 1B	J42-0085-05	BUSHING	
26 2A	K27-0199-04	KNOB	
27 2B	K27-0604-04	KNOB	
28 3A	K29-0391-14	KNOB	
29 2B	L01-2311-05	POWER TRANSFORMER	KP
29 2B	L01-2314-05	POWER TRANSFORMER	UM
29 2B	L01-2314-05	POWER TRANSFORMER	UE
29 2B	L01-2314-05	POWER TRANSFORMER	HX
29 2B	L01-2314-05	POWER TRANSFORMER	TE
30 3B	N09-0293-05	SCREW	
31 1A	N09-0373-05	SCREW	
32 2A,2B	N29-0053-05	FASTENER	
33 2A	N30-3006-46	PAN HEAD MACHINE SCREW	
34 2B	N87-3008-46	BRAZIER HD TAPTITE SCRE	
35 2A	N88-3008-46	FLAT HEAD TAPTITE SCREW	
36 1B	N89-3008-45	BINDING HD TAPTITE SCRE	
37 1A	S31-2050-05	SLIDE SWITCH	UM
37 1A	S31-2050-05	SLIDE SWITCH	UE
37 1A	S31-2050-05	SLIDE SWITCH	HX
37 1A	S31-2050-05	SLIDE SWITCH	E
38 2A	S40-1024-05	PUSH SWITCH	
S4	S31-2061-05	SLIDE SWITCH	UH
S4	S31-2061-05	SLIDE SWITCH	UE
-	T90-0202-05	ANTENNA FM	
40 1B	T90-0087-05	ANTENNA AM BAR (50L)	#
41 1B	T90-0104-05	ANTENNA AMLOOP	
42 2B	X05-1950-10	TUNER PCB ASSY	KP
42 2B	X05-1950-21	TUNER PCB ASSY	M
42 2B	X05-1950-51	TUNER PCB ASSY	TE
42 2B	X05-1950-52	TUNER PCB ASSY (50L)	TE
42 2B	X05-1950-71	TUNER PCB ASSY	X
42 2B	X05-1950-81	TUNER PCB ASSY	U
42 2B	X05-1950-81	TUNER PCB ASSY	UE
42 2B	X05-1950-81	TUNER PCB ASSY	H
43 2B	X13-3070-10	SUB PCB ASSY	KP
43 2B	X13-3070-10	SUB PCB ASSY	X
43 2B	X13-3070-81	SUB PCB ASSY	UM
43 2B	X13-3070-81	SUB PCB ASSY	UE
43 2B	X13-3070-81	SUB PCB ASSY	HT
43 2B	X13-3070-81	SUB PCB ASSY	E
TUNER (X05-19-**)**			
D4 -8	B30-0231-05	LAMP	
D9 ,10	B30-0230-05	LAMP	
C1	C24-1047-60	ELECTRO 47UF 10WV	
C2 ,3	C55-1710-38	CERAMIC 0.01UF Z	
C5 ,6	C55-1710-38	CERAMIC 0.01UF Z	
C7	C26-1710-57	NP-ELEC 1UF 50WV	
C8	C71-1710-15	CERAMIC 100PF J	
C9	C26-1710-57	NP-ELEC 1UF 50WV	

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Re-marks 備考
C10	C55-1710-38	CERAMIC 0.01UF Z	
C11	C24-1722-59	ELECTRO 2.2UF 50WV	
C12	C70-1708-02	CERAMIC 8PF D	
C13	C55-1747-38	CERAMIC 0.047UF Z	
C14	C24-1047-60	ELECTRO 47UF 10WV	
C15	C55-1747-38	CERAMIC 0.047UF Z	
C16	C24-1022-61	ELECTRO 22UF 10WV	
C17	C55-1710-38	CERAMIC 0.01UF Z	
C18	C71-1710-15	CERAMIC 100PF J	
C19	C26-1710-57	NP-ELEC 1UF 50WV	
C20	C71-1708-02	CERAMIC 8PF D	
C21	C71-1712-06	CERAMIC 12PF J	#T
C22	C55-1722-38	CERAMIC 0.022UF Z	
C23	C55-1710-38	CERAMIC 0.01UF Z	
C24	C58-1705-02	CERAMIC 5PF C	
C25	C70-1708-02	CERAMIC 8PF D	
C26	C47-1733-15	POLYSTY 330PF J	#T
C27	C67-1739-05	CERAMIC 39PF J	#T
C28	C48-1713-15	POLYSTY 130PF J	#T
C29 ,30	C55-1722-38	CERAMIC 0.022UF Z	
C31	C55-1747-38	CERAMIC 0.047UF Z	
C32	C52-1710-26	CERAMIC 0.001UF K	
C33 ,34	C55-1710-38	CERAMIC 0.01UF Z	
C35	C26-1747-47	NP-ELEC 0.47UF 50WV	
C36	C24-1022-61	ELECTRO 22UF 10WV	
C37	C24-6547-57	ELECTRO 4.7UF 35WV	
C38	C24-1047-60	ELECTRO 47UF 10WV	
C39	C55-1722-38	CERAMIC 0.022UF Z	#T
C40	C55-1747-38	CERAMIC 0.047UF Z	#T
C41 ,42	C24-1022-61	ELECTRO 22UF 10WV	
C43	C24-1210-67	ELECTRO 10UF 16WV	
C44	C24-1433-51	ELECTRO 3.3UF 25WV	
C45	C24-1022-61	ELECTRO 22UF 10WV	
C46	C55-1710-38	CERAMIC 0.01UF Z	
C47	C46-1768-36	MYLAR 0.068UF K	
C48	C24-1047-60	ELECTRO 47UF 10WV	
C49	C24-6547-57	ELECTRO 4.7UF 35WV	
C50 ,51	C46-1747-25	MYLAR 0.0047UF J	KU
C52 ,53	C24-1433-51	ELECTRO 3.3UF 25WV	
C54	C46-1747-35	MYLAR 0.047UF J	
C55	C47-1747-15	POLYSTY 470PF J	
C56 ,57	C24-1747-49	ELECTRO 0.47UF 50WV	
C58	C26-1710-57	NP-ELEC 1UF 50WV	
C59 ,60	C46-1715-35	MYLAR 0.015UF J	T
C59 ,60	C46-1722-36	MYLAR 0.022UF K	KU
C61 ,62	C26-1710-57	NP-ELEC 1UF 50WV	
C63	C24-1722-87	ELECTRO 2200UF 25WV	
C64	C24-1247-71	ELECTRO 470UF 16WV	
C65	C24-1247-77	ELECTRO 470UF 16WV	
C66	C24-1247-71	ELECTRO 470UF 16WV	
C67	C24-1222-71	ELECTRO 220UF 16WV	
C68 -72	C55-1710-38	CERAMIC 0.01UF Z	#T
C68 -70	C55-1710-38	CERAMIC 0.01UF Z	
C72	C55-1710-38	CERAMIC 0.01UF Z	
C73	C24-1047-60	ELECTRO 47UF 10WV	
C74	C55-1710-38	CERAMIC 0.01UF Z	
C75 ,76	C46-1775-25	MYLAR 4700PF J	U
TC1 ,2	C05-0303-05	TRIMMER CAPACITOR	#T
-	E23-0047-04	TERMINAL	
-	E23-0104-05	TERMINAL	
100	E29-0127-05	TERMINAL BOARD	

KT-50/50L KT-50/50L

PARTS LIST

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Re-marks 備考
F1	F05-5015-05	FUSE	T
-	J13-0054-05	FUSE HOLDER	T
CF1	L72-0126-05	CERAMIC FILTER	T
CF1 ,2	L72-0136-05	CERAMIC FILTER	KU
CF1 ,2	L79-0135-05	FILTER KIT	T
CF2	L72-0131-05	CERAMIC FILTER	T
CF3	L72-0099-05	CERAMIC FILTER	
L1	L30-0316-05	IFT	
L2	L30-0317-05	IFT	
L3	L79-0125-05	FILTER	T
L4	L32-0255-05	OSCILLATING COIL	
L5	L32-0256-05	OSCILLATING COIL (50L)	#T
L6	L40-1092-11	INDUCTOR (50L)	#T
L7	L40-1092-41	INDUCTOR (50L)	#T
L8	L40-2292-11	INDUCTOR	
L9	L30-0362-05	IFT	
L10	L31-0458-05	RF COIL	
L11	L79-0074-05	FILTER (50L)	#T
L12	L79-0140-05	FILTER	T
L13	L40-1092-11	INDUCTOR	
R107,108	R92-0173-05	RC 2.2M M 2H	K
R107,108	R92-0236-05	RC 18M	UT
VR1	R12-2302-05	TRIMMING POT. 5K	KU
VR1 ,2	R12-2302-05	TRIMMING POT. 5K	T
VR2	R12-3301-05	TRIMMING POT. 20K	KU
S1	S40-4037-05	PUSH SWITCH (50L)	#T
S1 2KEY	S42-2042-05	PUSH SWITCH	
S2	S40-8006-05	PUSH SWITCH (50L)	#T
S3	S40-2127-05	PUSH SWITCH	
D1 -3	V11-0271-05	1S2076	
D11	V11-4111-10	XZ-107	
D12	V11-4111-00	XZ-092	
D13	V11-1301-60	S1WB10	
D14 -16	V11-0271-05	1S2076	
IC1	V30-0438-10	HA12411	
IC2	V30-0353-10	AN6551	
IC3	V30-0439-10	LA1130	
IC4	V30-0353-10	AN6551	
IC5	V30-0434-10	UPC587C2	
IC6	V30-0357-10	AN6135	
Q1	V03-1923-00	2SC1923	
Q2 -4	V03-0405-05	2SC945(P)	
Q3 ,4	V03-0405-05	2SC945(P)	
Q5	V01-0733-90	2SA733(A)	
Q6	V09-0124-20	2SK61(Y)	
Q7	V09-0144-60	2SK163(L)	
Q8 -10	V03-0405-05	2SC945(P)	
Q11 ,12	V01-0733-90	2SA733(A)	
Q13 -16	V03-0405-05	2SC945(P)	
Q13 -15	V03-0405-05	2SC945(P)	
Q13 -16	V03-0405-05	2SC945(P)	
Q17	V03-0409-05	2SC1384(Q)	
Q18	V04-0655-20	2SD655(E,F)	
Q19	V04-0330-20	2SD330(E,F)	
Q20	V09-0144-60	2SK163(L)	
Q21 ,22	V03-0405-05	2SC945(P)	
101	W02-0063-05	FM FRONTEND	*
101	W02-0064-05	FM FRONTEND (50L)	*#T

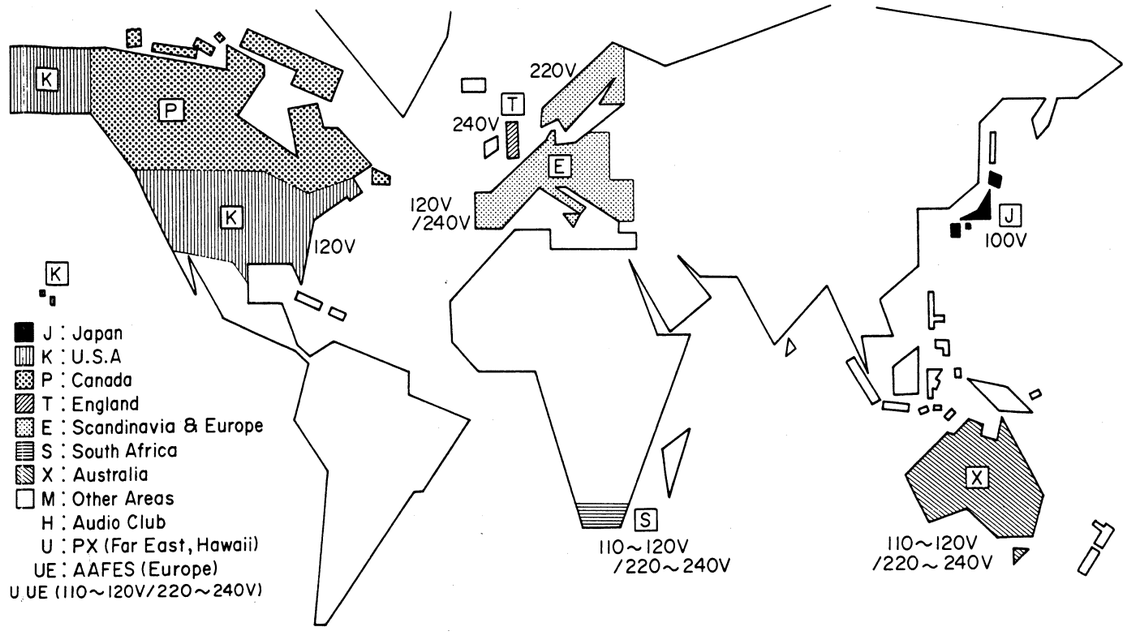
SUB (X13-30-**)**

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Re-marks 備考
-	B38-0025-05	DISPLAY ASSY	
C1 ,2	C52-1710-26	CERAMIC 0.001UF K	
C3 ,4	C55-1710-38	CERAMIC 0.01UF Z	
C5 ,6	C24-1210-69	ELECTRO 10UF 16WV	
C7	C71-1747-05	CERAMIC 47PF J	
C8	C55-1710-38	CERAMIC 0.01UF Z	
C9	C55-1747-38	CERAMIC 0.047UF Z	
C10 -14	C55-1710-38	CERAMIC 0.01UF Z	
C15	C26-1710-57	NP-ELEC 1UF 50WV	
C16 ,17	C58-1727-05	CERAMIC 27PF J	
C18	C55-1710-38	CERAMIC 0.01UF Z	
C19 ,20	C55-1747-38	CERAMIC 0.047UF Z	
-	E23-0047-04	TERMINAL	
L1	L40-1092-11	INDUCTOR	
L2	L40-3311-11	INDUCTOR	
L5 ,6	L40-1092-11	INDUCTOR	
X1	L77-0574-05	CRYSTAL RESONATOR	
VR1',2	R12-3302-05	TRIMMING POT. 10K	
D1	V11-4110-90	WZ-058	
D2 -5	V11-0271-05	1S2076	
D6	V11-0271-05	1S2076	
IC1	V30-0568-10	M54459L	
IC2	V30-0517-10	LC7257	
Q1 ,2	V03-0405-05	2SC945(P)	K
Q1 -3	V03-0405-05	2SC945(P)	U

FRONT END (W02-006*-)**

IC1	V30-0445-10	SC114	
Q1	V09-0121-10	2SK55	
Q2	V09-0124-20	2SK61	
D1	V11-3100-20	IS2236	

WORLD MAP & AREA CODE



Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

There is no plan for producing units of S type.

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